### From the INTERNATIONAL BUREAU

### **PCT**

### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

To:				
	Commissio	ne	r	

US Department of Commerce United States Patent and Trademark Office, PCT 2011 South Clark Place Room CP2/5C24

Arlington, VA 22202
FTATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)  06 June 2001 (06.06.01)	in its capacity as elected Office
International application No. PCT/SG00/00143	Applicant's or agent's file reference 1126.P001PCT
International filing date (day/month/year) 12 September 2000 (12.09.00)	Priority date (day/month/year) 15 September 1999 (15.09.99)
Applicant	
FONG, Fatt, Chee	

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	05 April 2001 (05.04.01)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
2.	The election X was was was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Zakaria EL KHODARY

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

# 8

### PATENT COOPERATION TREATY

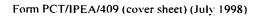
### **PCT**

REC'D 2 8 MAR 2002

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACT	TION See Not	ification of Transmittal of International Preliminary			
1126.P001PCT		Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (a		Priority Date (day/month/year)			
PCT/SG 00/00143	12 September 2000	J	15 September 1999 (15.09.1999)			
	(12.09.2000)					
International Patent Classification (IPC) or na	tional classification and IPC					
IPC <sup>7</sup> : G06F 17/60			JUL 1 6 2002			
Applicant FIRST CUBE PTE LTD. et al.						
This international preliminary example and is transmitted to the applicant		prepared by this l	nternational Preliminary Examination Authority			
2. This REPORT consists of a total of	of <u>4</u> sheets. in	cluding this cover	sheet.			
	for this report and/or shee	ets containing rect	cription, claims and/or drawings which have been ifications made before this Authority (see Rule CT).			
These annexes consist of a total of	sheets.					
3. This report contains indications rel	ating to the following ite	ms:				
1. Basis of the opin	ion					
II. Priority						
III. Non-establishme	nt of opinion with regard	to novelty, inven	tive step and industrial applicability			
IV. Lack of unity of i	invention					
	V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement					
VI. Certain documen	ts cited					
VII. Certain defects in	the international applica	ation				
VIII. Certain observati	VIII. Certain observations on the international application					
Date of submission of the demand		Date of completi	on of this report			
05.04.2001		28 F	ebruary 2002 (28.02.2002)			
Name and mailing address of the IPEA/A	T	Authorized offic	er			
Austrian Patent Office Kohlmarkt 8-10			FASTENBAUER			
A-1014 Vienna						
Facsimile No. 1/53424/200		Telephone No. 1	/53424/447			



### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/SG 00/00143

	I. Basis of the report	
1.	1. With regard to the elements of the international application:*	
	the international application as originally filed	
	the description:	
	pages, as originally filed	
	pages filed with the demand	
	pages filed with the letter of	·
	the claims:	
	pages, as originally filed	
	pages, as amended (together with any statement) pages, filed with the demand	under Article 19
	pages 28-31. filed with the letter of 21 February 200	2 (21.02.2002).
	the drawings: pages as originally filed	
	pages , filed with the demand	
	pages filed with the letter of	
	the sequence listing part of the description:	
	pages, as originally filed	
	pages filed with the demand	
	pages filed with the letter of	
2.	<ol> <li>With regard to the language, all the elements marked above we which the international application was filed, unless otherwise These elements were available or furnished to this Authority in</li> </ol>	indicated under this item.
	the language of a translation furnished for the purposes of	international search (under Rule 23.1(b)).
	the language of publication of the international application	n (under Rule 48.3(b)).
	the language of the translation furnished for the purposes or 55.3).	of international preliminary examination (under Rule 55.2 and/
3.	<ol> <li>With regard to any nucleotide and/or amino acid sequence dispreliminary examination was carried out on the basis of the seq</li> </ol>	
	contained in the international application in printed form.	·
	filed together with the international application in comput	er readable form.
	furnished subsequently to this Authority in written form.	
	furnished subsequently to this Authority in computer read	able form.
	The statement that the subsequently furnished written sequenternational application as filed has been furnished.	uence listing does not go beyond the disclosure in the
	The statement that the information recorded in computer rebeen furnished.	eadable form is identical to the written sequence listing has
4.	4. The amendments have resulted in the cancellation of:	
	the description, pages	
	the claims. Nos	
	the drawings, sheets/fig	
5.	<ol> <li>This report has been established as if (some of) the amendr beyond the disclosure as filed, as indicated in the Suppler</li> </ol>	nents had not been made, since they have been considered to go nental Box (Rule 70.2(c)).**
*	* Replacement sheets which have been furnished to the receiving C in this report as originally filed" and are not annexed to this re 70.17).	
**	** Any replacement sheet containing such amendments must be refe	rred to under item 1 and annexed to this report.

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SG 00/00143

١.	Statement	•		
	Novelty (N)	Claims	2-14	YES
		Claims	1	NO
	Inventive step (IS)	Claims	2-14	YES
		Claims	1	NO
	Industrial applicability (IA)	Claims	1-14	YES
		Claims		NO

This written opinion is based on the claims 1-14 filed with the letter of 21.2.2002.

The following documents have been cited in the Search Report:

D1: DE 29807184 U1 D2: DE 4130033 A1

Industrial applicability is given.

The amended and new claims filed with the letter of 21.2.2002 contain some features which were not contained in the originally claims 1-9.

In the letter of 21.2.2002 the applicant mentions that ... the two cited prior art ... do not have the provisions to allow the customer to return goods to a vendor... However Document D1, DE 298 07 184 U1, shows an electronic service box enabling the customer e.g. to place his laundry in the box section for laundry (11). This laundry is picked up by the laundry service. This corresponds to what is described on page 12 of the present application.

Hence D1 shows a system adapted to send goods from the customer to a service/vendor. To adapt this feature of D1 to also "return goods" to a vendor seems obvious for a person skilled in the art, thus D1 also facilitates two-way transactions between the customer and the vendor or a delivery agent/person. So, the features of the newly filed claim 1 are known or suggested by the documents cited in the search report.

Furthermore the new feature of the amended claim 1 "wherein said system controller is adapted to facilitate leasing of said locker units by registered parties for delivery or pickup of good, said registered parties including a customer, a vendor and a delivery agent" is not drafted in "terms of the technical features of the invention" (Rule 6.3(a)), but only contains features relating to commercial and non-technical matters. The formulation "is adapted to" does not fulfil the



International application No. PCT/SG 00/00143

Supp	lemental	Box
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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Box V (page 1)

requirement for a claim of being "clear and concise" (Article 6) as it only says what goal should be achieved, and not how it is achieved.

In the case it would be obvious for a person skilled in the art to achieve the goal "is adapted to" the claim would present a lack of inventive step; in the case it would not be obvious for a person skilled in the art how to reach this goal, the claim would not be "clear and concise".

Hence, all the features of new claim 1 of the present application are known or suggested by the above documents.

The features claimed in dependent claims 2-5, and the claims 6-14 involve an inventive step.

#### CLAIMS

l Claim:

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1. A system for facilitating a delivery and pickup of goods comprising: a plurality of locker modules, each of said locker modules having a plurality of locker units, a locker controller, a user interfacing device, a useridentifying device, and a remote receiving and transmitting device;

a system controller having an application server, a database server, and a remote receiving and transmitting device for communicating with said remote receiving and transmitting device of said locker modules;

a customer's PC terminal communicably connected to said system controller:

a vendor's PC terminal communicably connected to said system controller; and

a delivery agent's PC terminal communicably connected to said system controller;.

wherein said system controller is adapted to facilitate leasing of said locker units by registered parties for delivery or pickup of a good, said registered parties including a customer, a vendor and a delivery agent.

2. The system as recited in claim 1, wherein said system controller is further adapted to provide login identification to each of said registered parties based upon particulars received from said registered parties, said login identification being associated with a smart card and a pin number of each of said registered parties.

- 3. The system as recited in claim 2, wherein said system controller is Feb. 2222 further adapted to provide said pin number and information on said smart card to said locker controller for said leasing.
- 4. The system as recited in claim 1, wherein said system controller is further adapted to enable said registered parties to obtain status of said delivery or said pickup, said status comprising a delivery record of a particular delivery person and transaction details.
- 5. The system as recited in claim 1, wherein said system controller is further adapted to allow special access to said locker unit by said registered parties when a wrong delivery or a wrong item is placed into said locker unit.
- 6. A method of making a delivery of a good to a customer using a system for facilitating a delivery and pickup of goods comprising,

a plurality of locker modules, each of said locker modules having a plurality of locker units, a locker controller, a user interfacing device, a user-identifying device, and a remote receiving and transmitting device;

a system controller having an application server, a database server, and a remote receiving and transmitting device for communicating with said remote receiving and transmitting device of said locker modules, wherein said system controller is adapted to facilitate leasing of said locker units by registered parties for delivery or pick-up of a good, said registered parties including a customer, a vendor and a delivery agent;

AMENDED SHEET



a customer's PC terminal communicably connected to said system controller;

a vendor's PC terminal communicably connected to said system controller; and

a delivery agent's PC terminal communicably connected to said system controller,

said method comprising the steps of:

receiving, by said system controller, a request for use of a locker unit for said delivery or said pickup of said good;

reserving, by said system controller, said locker unit in response to said receiving step; and

notifying, by said system controller, said customer after said delivery of said good or of said locker unit for drop off of said good for said pickup.

- 7. The method of Claim 6, wherein said notifying step comprises the step of notifying said vendor or said delivery agent of said drop off.
- 8. The method of Claim 6, and further comprising the step of registering, by said system controller, particulars of said customer, said vendor, said delivery agent, and delivery persons prior to said receiving step.
- 9. The method of Claim 8, and further comprising the step of providing, by said system controller, login identification to each of said registered parties based upon particulars received from said registered parties, said

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login identification being associated with a smart card and a pin number of each of said registered parties.

- 10. The method of Claim 9, and further comprising the step of providing, by said locker controller, said pin number and information on said smart card to said locker controller for said leasing.
- 11. The method of Claim 6, and further comprising the step of allowing, by said system controller, special access to said locker unit by said registered parties when a wrong delivery or a wrong item is placed into said locker unit.
- 12. The method of Claim 6, and further comprising the step of renewing a lease period for said locker unit after said lease period runs out.
- 13. The method of Claim 6, wherein said method further comprises the step of providing a transaction number, by said system controller, to said vendor or said delivery agent after said reserving step.
- 14. The method of Claim 13, and further comprising the step of receiving, by said system controller, said transaction number and a login identification number associated with a delivery person to enable said delivery of said good or pickup of said drop off of said good.

INSTRIDED SHEET





### $\sqrt{12}$ ) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization International Bureau



## (43) International Publication Date 22 March 2001 (22.03.2001)

### **PCT**

## (10) International Publication Number WO 01/20423 A2

(51) International Patent Classification7:

- - -

- (21) International Application Number: PCT/SG00/00143
- (22) International Filing Date:

12 September 2000 (12.09.2000)

(25) Filing Language:

English

G06F

(26) Publication Language:

English

(30) Priority Data: 9904582-5

15 September 1999 (15.09.1999) S

- (71) Applicant (for all designated States except US): FIRST CUBE PTE LTD. [SG/SG]; 10 Euros Road 8, #07-32 Singapore Post Centre, Singapore 408600 (SG).
- (72) Inventor; and
- 75) Inventor/Applicant (for US only): FONG, Fatt, Chee [SG/SG]; 8 Kheam Hock Road, Singapore 298782 (SG).

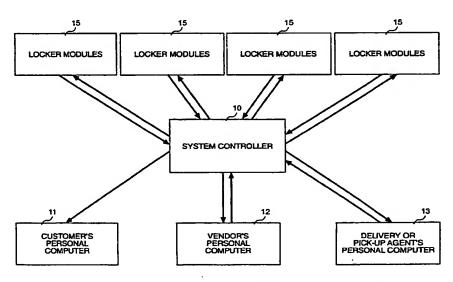
- (74) Agent: LAWRENCE Y. D. HO & ASSOCIATES; #07-01 Thongsia Building, 30 Bideford Road, Singapore 229922 (SG).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published:

 Without international search report and to be republished upon receipt of that report.

[Continued on next page]

(\$4) Title: A METHOD AND SYSTEM FOR FACILITATING DELIVERY AND PICKUP OF GOODS



(57) Abstract: The present system facilitates delivery and pickup of goods by providing a locker module at a location near a customer's residential site. For a vendor to deliver a good to the customer, the vendor leases a unit in the locker module from the system controller by accessing the system controller's website and providing details of the customer and a delivery agent. The vendor then notifies the delivery agent to make the delivery. The delivery agent provides the system controller the particulars of its delivery person. The designated delivery person accesses the leased locker unit using a registered smart card and delivers the good. The system controller notifies the customer of the delivered good. The customer accesses the locker unit containing the good by using a registered smart card.

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### INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

### (19) World Intellectual Property Organization

International Bureau



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## (43) International Publication Date 22 March 2001 (22.03.2001)

### **PCT**

## (10) International Publication Number WO 01/020423 A3

(51) International Patent Classification<sup>7</sup>: G06F 17/60

(21) International Application Number: PCT/SG00/00143

(22) International Filing Date:

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(30) Priority Data:

9904582-5 15 September 1999 (15.09.1999)

(71) Applicant (for all designated States except US): FIRST CUBE PTE LTD. [SG/SG]; 10 Eunos Road 8, #07-32 Singapore Post Centre, Singapore 408600 (SG).

(72) Inventor; and

(75) Inventor/Applicant (for US only): FONG, Fatt, Chee [SG/SG]; 8 Kheam Hock Road, Singapore 298782 (SG).

(74) Agent: LAWRENCE Y. D. HO & ASSOCIATES: #07-01 Thongsia Building, 30 Bideford Road, Singapore 229922 (SG). (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

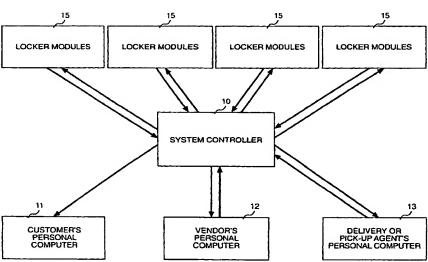
#### Published:

with international search report

(88) Date of publication of the international search report:
11 July 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD AND SYSTEM FOR FACILITATING DELIVERY AND PICKUP OF GOODS



AND OF THE

(57) Abstract: The present system facilitates delivery and pickup of goods by providing a locker module at a location near a customer's residential site. For a vendor to deliver a good to the customer, the vendor leases a unit in the locker module from the system controller by accessing the system controller's website and providing details of the customer and a delivery agent. The vendor then notifies the delivery agent to make the delivery. The delivery agent provides the system controller the particulars of its delivery person. The designated delivery person accesses the leased locker unit using a registered smart card and delivers the good. The system controller notifies the customer of the delivered good. The customer accesses the locker unit containing the good by using a registered smart card.

NO 01/020423 A3

#### INTERNATIONAL SEARCH REPORT

International application No. PCT/SG 00/00143

### CLASSIFICATION OF SUBJECT MATTER IPC7: G06F 17/60 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, PAJ, EPODOC, EspaceNet, Depatisnet C. DOCUMENTS CONSIDERED TO BE RELEVANT Category | Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X DE 298 07 184 U1 (Müller), 24 September 1998 (24.09.98) 1-3 see the whole document, esp. fig.1, fig.2. Y 4-9 Υ DE 41 30 033 A1 (ACCUMULATA), 18 March 1993 (18.03.93) see the whole document, esp. fig.1. Α 1-3 See patent family annex. Further documents are listed in the continuation of Box C. "T" later document published after the international filing date or priority Special categories of cited documents: "A" document defining the general state of the art which is not date and not in conflict with the application but cited to understand considered to be of particular relevance the principle or theory underlying the invention "E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step "L" document which may throw doubts on priority claim(s) or which is when the document is taken alone cited to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination being obvious to a person skilled in the art "P" document published prior to the international filing date but later than "&" document member of the same patent family the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 21 January 2002 (21.01.2002) 22 January 2002 (22.01.2002) Name and mailing adress of the ISA/AT Authorized officer Austrian Patent Office **FASTENBAUER** Kohlmarkt 8-10; A-1014 Vienna Facsimile No. 1/53424/535 Telephone No. 1/53424/447 Form PCT/ISA/210 (second sheet) (July 1998)

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/SG 00/00143

	Patent document cited in search report		Publication date		Patent f membe		Publication date
DE U1		29807184	24-09-1998			none	
DE	Al	4130033	18-03-1993	AT	E	163785	15-03-1998
DE	C2	4130033	19-10-1995	DE	C0	59209212	09-04-1998
				DK	т3	531942	30-11-1998
				EP	A2	531942	17-03-1993
				EP	A3	531942	14-07-1993
				EP	Bl	531942	04-03-1998
				ES	т3	2115628	01-07-1998